Day 2: Wednesday 23 June 2021

08:30 - 09:00	Check-In		
09:00 - 09:45	**Keynote 2** **3D printing in aerospace - successes and challenges** **Volker Thum, Geschäftsführer, BDLI Bundesverband der Deutschen Luft- und Raumfahrtindustrie e.V.** **BDLI**		
09:45 - 10:15	*Coffee break*		
	Software, Processes, Construction II	**AM Science II** Room: Panoramasaal	**News from AM II** Room: Carl Zeiss
10:15 - 10:45	*Machine Learning-based Manufacturability Analysis for Additive Manufacturing* Tobias Nickchen, Wissenschaftlicher Mitarbeiter, **Universität Paderborn**	*The Effect of Build Direction on the Mechanical Properties of Binder Jet Additively Manufactured (BJAM) 17-4 PH Stainless Steel* Daniel Huber, Wissenschaftlicher Mitarbeiter, **Institut für Technologien der Metalle, Lehrstuhl für Werkstofftechnik, Universität Duisburg-Essen**	*Cold Metal Fusion – Still glueing or already melting?* Christian Staudigel, Managing Director, **Headmade Materials GmbH**
10:45 - 11:15	*Complexity and economical value of Artificial Intelligence for automated and industrialized recognition of additive manufactured components* Philip Obst, Doktorand, **BMW AG**	*Methodology for quantification of laser beam-plume interaction in multi laser LPBF systems* Dr. Wilhelm Meiners, AM Expert, **Trumpf Laser- und Systemtechnik GmbH**	*ProFocus - flexible lasersystem for additive manufacturing with wire and powder* Dr. Frank Silze, Projektleiter, **OSCAR PLT GmbH**
11:15 - 11:45	*Opportunities of Additive Manufacturing in the field of cabinet design with IP protection through blockchain technology* Marvin Krecht, Technical Product Designer, **Weidmüller Interface GmbH & Co. KG &** Andreas Hoppe, Software System Engineer, **SSLM Solutions Group AG**	*Developing a Powder Application Module based on Electropho-tography for Additive Powder Bed-based Processes* Julia Förster, Wissenschaftliche Mitarbeiterin, **Fraunhofer IGCV**	*A new smoke-safe preheating method for Electron Beam Powder Bed Fusion, opening up a wider range of processable feedstocks* Ph.D. Ulric Ljungblad, CEO, **Freemelt AB**
11:45 - 12:15	*Lunch break*	*Design rule for efficient support connection point spacing in laser powder bed fusion of Ti6Al4V* Karim Asami, Wissenschaftlicher Mitarbeiter, **iLAS Institut für Laser- und Anlagensystemtechnik, Technische Universität Hamburg**	*Stratasys Selective Absorption Fusion – a new technology platform for producing polymer parts* Christoph Lindner, Senior Sales Manager EMEA - Production, **Stratasys GmbH**
12:15 - 12:45	**Tool-, Model- & Mould Making** Room: Christian Reichart *Energy and resources - efficient AM production The right degree of individuality and standardization determines the sustainability of a product.* Ingrid Prestien, CEO, **CIPRES GmbH**	*Lunch break*	*No Innovation without Material Variety: PBT and the new high-performance Material Rolaserit X for Powder Bed Fusion* Dr. Andreas Wegner, Geschäftsführer & Timur Ünlü, CEO, **AM POLYMERS GmbH**
12:45 - 13:15	*3D-printed PCD milling tools with optimized coolant systems* Dr. Gerhard Panzl, Leitung Additive Fertigung, **Fuchshofer Präzisionstechnik GmbH**	*Relevance and benefits of predictive analytics for metal-based additive manufacturing systems* Daniel Beck, Geschäftsführer, **Bionic Production GmbH**	*Lunch break*
13:15 - 13:45	*Sustainable use of additive manufacturing in toolmaking* Marco Werling, CEO, **mawe presstec GmbH**	*Resource requirements of additively manufactured tensile specimens when orientation is varied* Joachim Brinkmann, Doktorand, **Hochschule Trier, Umwelt-Campus Birkenfeld, Institut für Betriebs- und Technologiemanagement (IBT)**	**Aviation II** Room: Carl Zeiss *Additive Manufacturing for Space - New opportunities for satellite structures* Dr. Marco Mulser, Additive Manufacturing Coordinator, **OHB System AG**
13:45 - 14:15	*Coffee break*	*Coffee break*	*Additive manufacturing for large structures* Markus Axtner, Program Manager Additive Manufacturing, **MT Aerospace AG**
14:15 - 14:45	*Additively manufactured graded material combinations via MPA processing* Lucas Adler, Development, **Hermle Maschinenbau GmbH**	*Additive Manufacturing of bio-based materials - Binder Jetting of peach kernel powder* Dr. Lisa Kühnel, Research Associate, **TU Bergakademie Freiberg, Chair of Additive Manufacturing**	*Coffee break*
14:45 - 15:15	*Sensor integration in AM tools* Nick Hantke, Wissenschaftlicher Mitarbeiter, **Ruhr-Universität Bochum, Lehrstuhl für Hybrid Additive Manufacturing**	*Systematic assessment of material-specific human toxic hazards in Additive Manufacturing processes* Alexander Mahr, Laborleiter, **Fraunhofer-Institut für Produktionstechnik und Automatisierung IPA**	*Planning and optimization of hybrid additive process chains and their standardization opportunities* Martin Schäfer, Senior Key Expert Additive Manufacturing, **Siemens AG** *Resource efficient manufacturing of aircraft turbine housings using hybrid additive manufacturing* Stefan Polenz, Wissenschaftlicher Mitarbeiter, **Fraunhofer-Institut für Werkstoff- und Strahltechnik**
15:15 - 15:45	*Tool inserts with close contur cooling made of 1.2365 for die-cast aluminum* Alexandra Svoboda, Forschung & Entwicklung, **JELL GmbH & Co.KG**	*Validating Isotropy in mechanical properties using reactive extrusion-based additive manufacturing (EAM) and polyurethane* Dr.-Ing. Jens Butzke, Projektleiter, **Institut für Kunststofftechnik Darmstadt (ikd)**	*Process-Structure-Property-Correlation of additively manufactured Ti6Al4V - Influence factors and experimental validation* Dr. Martina Zimmermann, Abteilungsleitung, **Fraunhofer IWS**
15:45 - 16:15	**Liebherr AM Actuators for Boeing 777X** **Alexander Altmann, Head of Additive Manufacturing, Liebherr-Aerospace Lindenberg GmbH**		